

SPECIFICATION

Product Name: Isopropyl Alcohol IP Grade
Chemical Formula: C ₃ H ₈ O ₃
CAS Number: 67-63-0
Molecular Weight: 60.1 g/mol
Appearance: Clear colourless liquid
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Purity	%	99.96	Min. 99.80
Benzene	mg/kg	<1	Max. 2
Colour	APHA	<5	Max. 5
Specific gravity @20°C	-	0.7865	0.7850 – 0.7870
Relative density 27/27°C	-	0.7819	0.781 – 0.785
Moisture	mg/kg	524	Max. 1000
Acidity (as acetic acid)	mg/kg	11	Max. 20
Residue on evaporation	g/ml	0.0009	Max. 0.004
Aldehydes and ketones	%	0.0088	Max. 0.20
Distillation range (including 82.4°C)	°C	0.4	NLT 95% shall distilled within 2°C

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in chloroform.
Soluble in ether.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place, preferably at 15–30°C. Keep the container tightly closed and protect from heat, sparks, open flames, and direct sunlight, as isopropyl alcohol is highly flammable. Store in the original, properly labeled container away from oxidizing agents and other incompatible materials to maintain product quality and ensure safe handling.

Applications

- Use: Widely used as a solvent, disinfectant, antiseptic, cleaning agent, and processing aid in pharmaceutical, laboratory, cosmetic, and healthcare applications. It is commonly used for cleaning and sanitizing manufacturing equipment and surfaces, disinfecting skin before injections or minor procedures, dissolving pharmaceutical ingredients, and preparing topical formulations. It is also used in laboratories and industrial processes where a high-purity, fast-evaporating solvent is required.
- Dosage: Depends on the formulation or manufacturing process. For external antiseptic use, 70% v/v isopropyl alcohol is commonly used for skin disinfection and surface sanitization. The amount used should comply with pharmacopeial standards, Good Manufacturing Practice (GMP), and applicable regulatory requirements.

Packaging

- Standard Packing: 160 Liter Steel Drum or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.